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Tree Risk  
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11-05-2018

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Site Inventory of Trees: 604 N 43rd St, Seattle 98103

**Notes:**

- 1.) DBH = Diameter at Breast Height / 54" from ground.
- 2.) Cond = Condition: Poor, Fair, Good—visual observation only.
- 3.) PCRZ = Perimeter Critical Root Zone - DBH X 12" Radius from Trunk.—See Page 2.

**Tools used: Tape Measure and Visual Ground Level Observation.**

1.) ***Magnolia grandiflora*, southern magnolia** : 15" DBH, Cond Good, 15' PCRZ

Not exceptional. ( 16" threshold. )

2.) ***Malus domestica*, common apple** : 6" DBH, Cond Good, 6' PCRZ

Not exceptional. ( 20" threshold. )

3.) ***Pyrus calleryana*, Callery pear** : 6" DBH, Cond Good, 6' PCRZ

Not exceptional. ( 13" threshold. )

*Steve Cushing PN-7629 + T.R.A.Q.*



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## Critical Root Zone (CRZ)

The CRZ of a tree, also called the "tree protection zone", is often defined as an imaginary circle on the ground that corresponds with the "dripline" of the tree. However, the dripline is very irregular and misleading, so the trunk diameter is referred to.

To determine a CRZ:

- Measure tree diameter 4.5 feet above grade
- Multiply this diameter by 12 in.

**Critical Root Zone (CRZ) = 12" Radius for every Tree inch diameter. Generally considered optimum protection.**

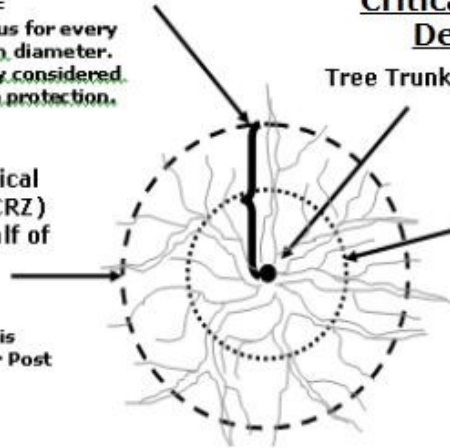
**Perimeter Critical Root Zone (PCRZ) = the outer half of the CRZ**

**The greater the disturbance in this area, the greater Post Care is required.**

## Critical Root Zone Delineation

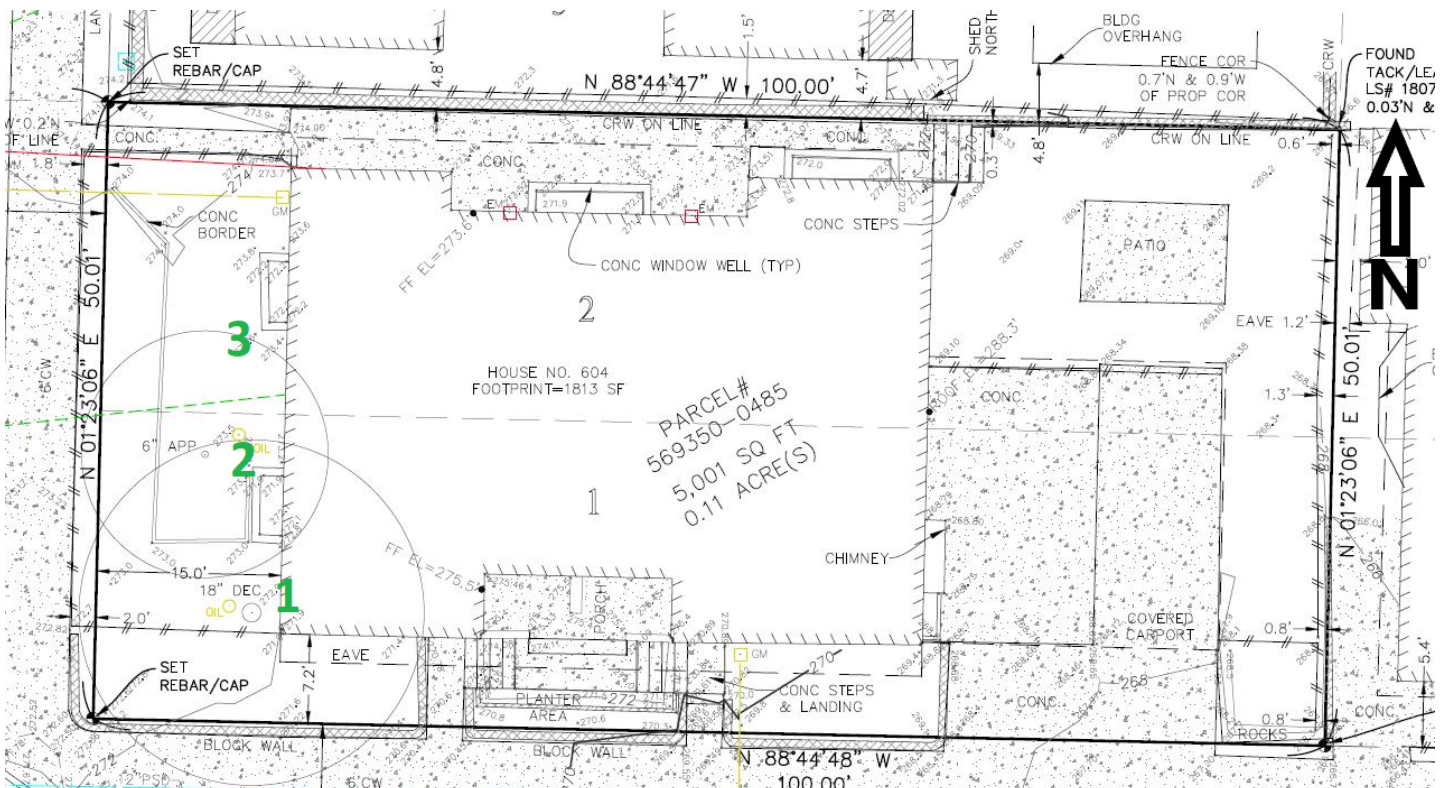
**Interior Critical Root Zone (ICRZ) = the inner half of the CRZ**

**Protecting only this area would cause significant impact to the tree, potentially life threatening, and would require maximum Post Care Treatment.**



Keep in mind that while this is a generally accepted method for measuring CRZ, root systems will vary in depth and spread based on size of tree, soil quality, water table, species, and other related factors.

The above CRZ drawing also defines the "Perimeter CRZ" (PCRZ) and "Interior CRZ" (ICRZ). Generally, the full PCRZ is considered the optimum amount of root protection for a tree. (The ICRZ is identified as the inner half of the CRZ radius.) As root impact occurs within the PCRZ, greater post care will be required for the tree to remain alive and stable. The absolute maximum disturbance allowed must still leave the ICRZ undisturbed if the tree is to have any chance of survival. If the root impact were this severe, the tree would then need to be treated and maintained as a transplanted tree. In this case, the tree would require extensive post care, including but not limited to; regular irrigation, misting, root treatment with special root hormones, mulching, guying, and monitoring for several years.



**Assumptions and Limiting Conditions**

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- 2.) All existing liens encumbrances, and assessments, if any, have been disregarded (unless otherwise noted,) and the trees are evaluated as though free and clear, under responsible ownership and competent management. It is assumed that no violations of applicable government regulations have occurred.
- 3.) Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible. However, Steve Cushing / arborsteve.com can neither guarantee nor be responsible for the accuracy of information.
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- 14.) The right is reserved to adjust valuations if additional information is made available.
- 15.) I do not guarantee the acquisition / approval of any request or application for any permitting or permissions to be granted by any person, city, municipality or entity of any kind with the information provided.